

FC610B Fast Ethernet Fiber Media Converters

Overview

Ficom FC610B is a kind of 10/100Mbps adaptive fast Ethernet fiber media converter (also called optical-to-electric medium converter), which can implement mutual conversion between two independent 10Base-T/100Base-TX twisted pair electrical signal and 100Base-FX optical signal. This type of fiber converter can extend the transmission distance of a network from the limit of 100m (via copper wires) to 120Km (single-mode full-duplex mode). FC610B supports two different types of network connection medium types: 10/100Base-TX and 100Base-FX. With the application of the switching technology and the storing & forwarding technology, the converter can implement data transmission between the two types of network connection media. It supports transmission in dual-fiber multi-mode, dual-fiber single-mode and single-fiber single-mode fibers.

Features

- Adaptive 10Mbps and 100Mbps environment, for the convenience of network upgrade;
- Efficient built-in switching core, to implement flow control and reduce broadcast packets;
- Providing two independent 10/100Mbps adaptive switching-type twisted pair ports, to implement electrical interface backup;
- Supporting full-duplex and half-duplex transmission modes and capable of automatic negotiation;
- Supporting automatic cross of twisted pair ports, for the convenience of system debugging and installation;
- Supporting the transmission of extra-long packets (with the maximum length of 1552 bytes);
- Supporting the transmission of extra-long packets over VLAN;
- Supporting Quality of Service (QoS) and ensuring transmission of VoIP packets;
- Supporting Spanning Tree Protocol (STP) to form a redundant network;
- Extremely low power consumption (less than 2W), low heat and capable of stable operation for a long period of time;
- Supporting multiple types of fiber ports such as dual-fiber multi-mode、 dual-fiber single-mode and single-fiber single-mode, to satisfy the extended requirements of users.

Application

10/100Mbps fast optical Ethernet network with long-distance transmission

Pictures



Technical Specifications

Parameters	Specifications
Access mode	10/100Mbps
Standard	IEEE802.3 10Base-T Ethernet, IEEE802.3u, 100Base-TX/FX Fast Ethernet, IEEE802.3x Flow control, IEEE802.1q VLAN, IEEE802.1p QoS, IEEE802.1d Spanning Tree
Wavelength	850nm/1310nm/1550nm
Transmission distance	Dual-fiber multi-mode: 2Km; Dual-fiber single-mode: 25/40/60/80/100/120Km; Single-fiber single-mode: 25/40/60/80/100Km Category-5 twisted pairs: 100m
Port	Two RJ45 ports: Connected to STP/UTP category-5 twisted pairs One fiber port: Multi-mode – SC or ST (fiber size: 50,62.5/125µm) Single mode – SC/FC fiber port (fiber size: 9/125µm) Single-fiber single-mode – SC/FC fiber port (fiber size: 9/125µm)
Conversion mode	Medium conversion, storing and forwarding mode
MAC address table	1 K
Buffer space	1Mbit
Flow control	Full duplex state: flow control; half-duplex state: back pressure mode
Delay	9.6µs

Address: 6th Floor, 12th Building, Wangtang Industrial Zone, Xingao Road, Xili, Nanshan District, Shenzhen

Tel: 86 755-8312-8820 Fax: 86 755-8315-1488 755-8312-8484

Email: sale1@haishuo.com may_haishuo@yahoo.com Web: www.haishuo.com

Bit error rate	<1/1000000000
MTBF	100,000 hours
LED	POWER (power), FX LINK/ACT (fiber link/action), FX FDX (FX full duplex mode) TP1 LINK/ACT (Port 1 twisted pair link/action), TP1 100 (port 1 twisted pair 100M transmission rate) TP2 LINK/ACT (Port 2 twisted pair link/action), TP2 100 (port 2 twisted pair 100M transmission rate)
Power	DC5V/1A (external)
Power consumption	3.2W
Operating temperature	-10~55°C
Operating humidity	5%~90%
Storage temperature	-40~70°C
Storage humidity	5%~90% (non-condensing)
Dimensions	24mm(H)*59mm(W)*98mm(D) (height * width * depth) (external power) 26mm(H)*85mm(W)*135mm(D) (height * width * depth) (built-in power)

Order Information

Model	Rate (Mbps)	Mode	Working Wavelength (nm)	Transmission Distance (Km)	Fiber Interface	Power
FC610BM-SC/ST	10/100	Dual-fiber multimode	1310	2	SC/ST	External DC5V/1A
FC610BPM-SC/ST	10/100	Dual-fiber multimode	1310	2	SC/ST	Internal AC 220V
FC610BCM-SC/ST	10/100	Dual-fiber multimode	1310	2	SC/ST	Card DC5V
FC610BS20/40/60-SC/FC	10/100	Dual-fiber single-mode	1310	25/40/60	SC/FC	External DC5V/1A
FC610BPS20/40/60-SC/FC	10/100	Dual-fiber single-mode	1310	25/40/60	SC/FC	Internal AC 220V
FC610BCS20/40/60-SC/FC	10/100	Dual-fiber single-mode	1310	25/40/60	SC/FC	Card DC5V

FC610BS80/100/120-SC/FC	10/100	Dual-fiber single-mode	1550	80/100/120	SC/FC	External DC5V/1 A
FC610BPS80/100/120-SC/FC	10/100	Dual-fiber single-mode	1550	80/100/120	SC/FC	Internal AC 220V
FC610BCS80/100/120-SC/FC	10/100	Dual-fiber single-mode	1550	80/100/120	SC/FC	Card DC5V
FC610BSS20/40/60/80/100-SC	10/100	Single-fiber single-mode	WDM 1310/1 550	25/40/60/80/10 0	SC	External DC5V/1 A
FC610BPSS20/40/60/80/100-S C	10/100	Single-fiber single-mode	WDM 1310/1 550	25/40/60/80/10 0	SC	Internal AC 220V
FC610BCSS20/40/60/80/100-S C	10/100	Single-fiber single-mode	WDM 1310/1 550	25/40/60/80/10 0	SC	Card DC5V